

Horizontal Bar Chart of Programming Language Popularity

Aim

To create a Python program that displays a horizontal bar chart showing the popularity of programming languages.

Algorithm

1. Import the required libraries (matplotlib.pyplot)
2. Define the data for programming languages and their popularity
3. Create a figure and axis object
4. Use plt.barh() to create horizontal bars
5. Set the y-tick labels to the programming language names
6. Add labels and title to the chart
7. Display the chart

Code

```
import matplotlib.pyplot as plt

languages = ['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++']
popularity = [22.2, 17.6, 8.8, 8, 7.7, 6.7]

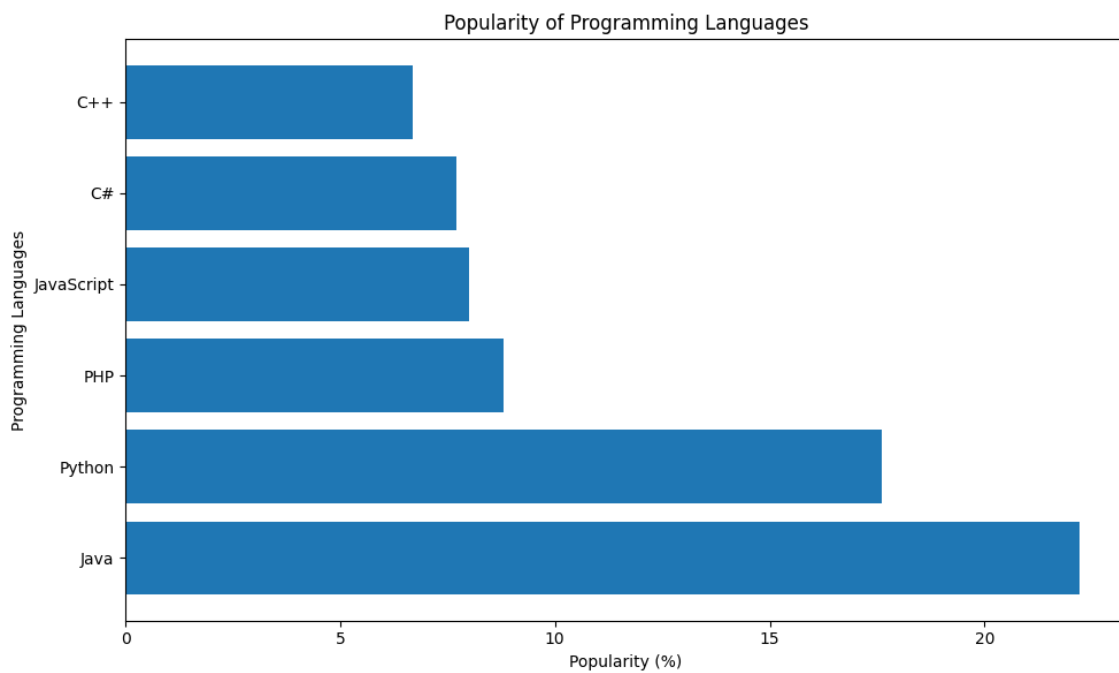
fig, ax = plt.subplots(figsize=(10, 6))

ax.barh(languages, popularity)

ax.set_xlabel('Popularity (%)')
ax.set_ylabel('Programming Languages')
ax.set_title('Popularity of Programming Languages')

plt.tight_layout()
plt.show()
```

Output



Result

The program successfully creates a horizontal bar chart displaying the popularity of various programming languages. The chart clearly shows Java as the most popular language, followed by Python, with C++ being the least popular among the given options. This visualization allows for quick and easy comparison of language popularity.